

YAROTSKIY, G.I., agronom.

Corn as preceding crops for winter wheat. Zemledelie 5 no.7:72-73
J1 '57. (MLRA 10:8)

1. Lyubashevskiy sortouchastok.
(Corn (Maize)) (Wheat)

YAROTSKIY, G. I.

USSR/Cultivated Plants - Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91635

Author : Yarotskiy, G.I.

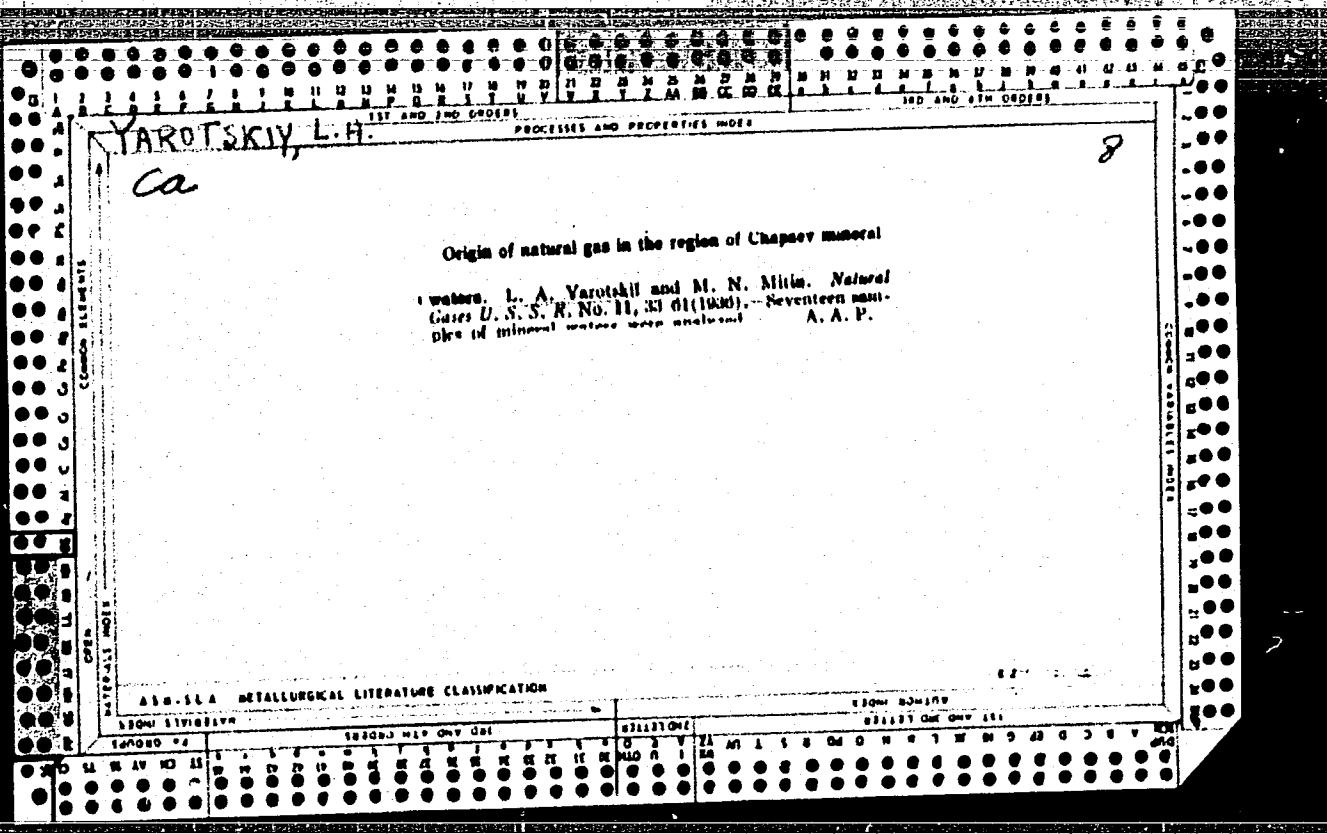
Inst : State Commission for Variety Testing Agricultural Crops.

Title : Corn as a Crop Preceding Winter Wheat.

Orig Pub : Inform. byul. gos. komis. po sortoispyt. s.-kh. kul'tur pri M-ve s. kh. SSSR, 1957, No 12, 12-14.

Abstract : According to the 1955 - 1957 tests of the Lyubashevskiy Variety Plot in Odesskaya Oblast the VIR 25, VIR 42, Bukovinskiy 1, 2 and 3, Dneprovskiy 56 hybrids and the fast ripening flint variety grown for green feed turned out to be suitable as preceding crops for winter wheat. They guaranteed an average yield of Odessa 3 wheat grain at 24.8 - 25.5 centners/hectare. Early ripening Bukovinskiy 1, 2 and 3, Dneprovskiy 56 hybrids and the fast

Card 1/2



YAROTSKIY, L.A.

Conditions for the formation of strong hydrogen sulfide waters at the Kerch Peninsula. Trudy Lab. Gidrogeol. Problem im. V.P. Savaren'skogo, Akad. Nauk S.S.R. 3, 247-52 '48.
(CA 47 no.20:10773 '53)

YAROTSKIY, L. A.

YAROTSKIY, L. A. -- "Conditions Governing the Formation of Hydrogen Sulfide Solution on Kerch Peninsula." Sub 13 Dec 52, Inst of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, Acad Sci USSR. (Dissertation for the Degree of Candidate in Geological and Mineralogical Sciences).

SO: Vechernaya Moskva January-December 1952

15-57-1-1006

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,
p 159 (USSR)

AUTHOR: Yarotskiy, L. A.

TITLE: The Conditions of Formation of Thermal Waters at the
Dzhalal-Abad Spa (Usloviya formirovaniya termal'nykh
vod kurorta Dzhalal-Abad)

PERIODICAL: V sb: Vopr. izucheniya kurort. resursov SSSR. Moscow,
Medgiz, 1955, pp 79-96.

ABSTRACT: The author discusses several questions on the origin
of thermal springs and other mineral waters at the
Dzhalal-Abad spa. The thermal waters are considered
to be waters rising along faults from Paleozoic rocks.
The sodium-magnesium-chloride-sulfate waters are waters
from the terminal parts of an artesian basin in Upper
Jurassic rocks. The highly mineralized sodium-chloride
waters of Shorbukh are waters from the deep parts of
the Upper Jurassic artesian basin.

Card 1/1

A. B. A.

YAROTSKIY, L.A.
OVCHINNIKOV, A.M.; IVANOV, V.V.; YAROTSKIY, L.A.

Origin of carbonated mineral waters. Sov. geol. 1 no.1:145-149
Ja '58. (MIRA 11:4)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze i
Tsentral'nyy nauchno-issledovatel'skiy institut kurortologii.
(Mineral waters) (Carbon dioxide)

IVANOV, Valeriy Vladimirovich; OVCHINNIKOV, Aleksandr Mikhaylovich;
YAROTSKIY, Leonid Aleksandrovich; Prinimala uchastiye TIKHONOVA,
N.V. NEVRAYEV, G.A., red.; IVANOVA, A.G., tekhn.red.

[Map of underground mineral waters of the U.S.S.R. with a scale
of 1:7,500,000; explanatory notes] Karta podzemnykh mineral'nykh
vod SSSR mashtaba 1:7,500,000; poiasnitel'naia zapiska. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960.
59 p. (MIRA 13:12)

1. Gidrogeologicheskoye otdeleniye Gosudarstvennogo nauchno-issle-
dovatel'skogo instituta kurortologii i fizioterapii Ministerstva
zdravookhraneniya SSSR (for Ivanov, Ovchinnikov, Yarotskiy).
(Mineral waters--Maps)

TKACHUK, V.G., doktor geologo-mineralog. nauk; TOLSTIKHIN, N.I., prof.; PINNEKER, Ye.V., kand. geologo-mineralog. nauk, mladshiy nauchnyy sotr.; YASNITSKAYA, N.V., mladshiy nauchnyy sotr., khimik; KRUTIKOVA, A.I., mladshiy nauchnyy sotr., khimik; SHOTSKIY, V.P., kand. geogr. nauk; ORLOVA, L.M., starshiy gidrogeolog; STEPANOV, V.M., kand. geologo-mineralog. nauk; VLASOV, N.A., kand. khim. nauk; PROKOP'YEV, B.V., kand. khim. nauk; CHERNYSHEV, L.A., starshiy prepodavatel'; PAVLOVA, L.I., starshiy prepodavatel'; Prinimali uchastiye: IVANOV, V.V., kand. geologo-mineralog. nauk; YAROTSKIY, L.A., kand. geologo-mineralog. nauk; KARASEVA, A.P., nauchnyy sotr.; ARUTYUNYANTS, R.R., nauchnyy sotr.; ROMANOVA, E.M., nauchnyy sotr.; TROFIMUK, P.I., starshiy hidrogeolog; LADEYSHCHIKOV, P.I., starshiy nauchnyy sotr., kand. geogr. nauk; LIVSAK, S.V., starshiy laborant; KRUCHININA, L.Yu., laborant; SEMENOVA, Ye.A., red. izd-va; BOCHEVER, V.T., tekhn. red.

[Mineral waters of the southern part of Eastern Siberia] Mineral'nye vody iuzhnoi chasti Vostochnoi Sibiri. Moskva. Vol.1. [Hydrogeology of mineral waters and their significance for the national economy] Gidrogeologiya mineral'nykh vod i ikh narodnokhoziaistvennoe znaenie. Pod obshchei red. V.G.Tkachuk i N.I.Tolstikhina. 1961. 346 p. (MIRA 14:8)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Vostochno-sibirskiy geologicheskiy institut. (Continued on next card)

TKACHUK, V.G.---- (continued) Card 2.

2. Vostochno-Sibirskiy geologicheskiy institut (for Tkachuk, Pinneker, Yasnitskaya, Krutikova, Lysak). 3. Institut geografii Sibirskego otdeleniya Akademii nauk SSSR (for Shotskiy). 4. Chitinskoye geologicheskoye upravleniye (for Orlova). 5. Sosnovskaya ekspeditsiya Ministerstva geologii i okhrany nedor SSSR (for Stepanov). 6. Irkutskiy gosudarstvenny universitet (for Vlasov, Prokop'yev, Chernyshev, Pavlova). 7. Leningradskiy gornyy institut (Tolstikhin). 8. Gosudarstvenny nauchno-issledovatel'skiy institut kurortologii i fizioterapii (for Ivanov, Yarotskiy, Karaseva, Arutyunyants, Romanova). 9. Irkutskoye geologicheskoye upravleniye (for Trofimuk). 10. Baykal'skaya limnologicheskaya stantsiya Vostochno-Sibirskogo filiala AN SSSR (for Ladeyshchikov). 11. Otdel ekonomiki i geografii Vostochno-Sibirskogo filiala AN SSSR (for Kruchinina).

(Siberia, Eastern--Mineral waters)

OVCHINNIKOV, Aleksandr Mikhaylovich; YAROTSKIV, L.A., nauchn.
red.; YASSON, R.A., red.izd-va; SIMAKOVA, T.M., tekhn.
red.

[Mineral waters; study of mineral water resources using
the fundamentals of hydrochemistry and radiohydrogeology]
Mineral'nye vody; uchenie o mestorozhdeniakh mineral'nykh
vod s osnovami gidrogeokhimii i radiogidrogeologii. Izd.2.,
ispr. i dop. Moskva, Gosgeoltekhnizdat, 1963. 374 p.
(MIRA 17:2)

YAROTSKIY, L.S.

On the 100th anniversary of the birth of Prof. Nikolai Mgorovich Knshov. Sov.zdrav. 18 no.12:38-40 '59. (MIRA 13:4)

1. Iz otsteleniya epidemiologii i organizatsii bor'by s malyariyey i drugimi parazitarnymi zabolevaniyami (zaveduyushchiy - dotsent M.G. Rashina) Instituta malyarii meditsinskoy parazitologii i gel'mintologii (direktor - prof. P.G. Sergiyev) Ministerstva zdravookhraneniya SSSR.

(BIOGRAPHIES)

YAROTSKIY, L.S.

Data on the epidemiology of tick-borne encephalitis and on its
endemic focus in the southeastern part of Chulyum Basin. Med.
paraz.i paraz.bol. 29 no.1:15-27 Ja-F '60. (MIRA 13:10)
(CHULYM VALLEY—ENCEPHALITIS)

YAROTSKIY, L.S.

Nosogeoigraphy and epidemiology of communicable and parasitic diseases in the Republic of Guinea; observation data of 1959-1961. Report No.1: Helminthiases. Med. paraz. i paraz. bol. 31 no.6:733-741 N-D '62. (MIRA 17:11)

1. Iz otdela epidemiologii (zav. - prof. N.N. Dukhanina) Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Martsinovskogo (dir. - prof. P.G. Sergiyev) Ministerstva zdravookhraneniya SSSR.

YAROTSKIY, L.S.

Nosogeography and epidemiology of transmissible and parasitic diseases in the Republic of Guinea; based on data compiled from 1959 to 1961. Report No. 2: Malaria; its incidence among visitors from the U.S.S.R. and some other countries. Med. paraz. i paraz. bol. 32 no.4:436-442 Jl-Ag '63.

(MIRA 17:8)

1. Iz otdela epidemiologii (zav. - prof. N.N. Dukhanina) Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.I. Martsinovskogo Miristerstva zdravookhraneniya SSSR (dir. - prof. P.G. Sergiyev).

YAROTSKIY, L.S.

Experience in the prevention of African trypanosomiasis with
lomidine. Med. paraz. i paraz. bol. 33 no.1:103-104 Ja-F '64
(MIRA 18:1)

1. Otdel epidemiologii (zav. - prof. N.N. Dukhanina) Instituta
meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.A.
Martsinovskogo (direktor - prof. P.G. Sergiyev) Ministerstva
zdravookhraneniya SSSR, Moskva.

YAROTSKIY, L.S.

Materials for the medicogeographical characteristics of the
Republic of Guinea. Vop geog. no.68:72-98 '65.

(MIRA 18:12)

YAROTSKIY, N., zasluzhenny master professional'no-tehnicheskogo
obrazovaniya RSFSR

Machine operators learn mechanical engineering. Prof.-tekhn.obr.
22 no.8:8-9 Ag '65. (MIRA 18:12)

1. Grigoripolisskoye sel'skoye professional'no-tehnicheskoye
uchilishche No.9 Stavropol'skogo kraya.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962210014-5

LATYSHENKOV, A.M., kand. tekhn. nauk; YAROTSKIY, V.A., inzh.

Laboratory hydraulic studies of a hydraulic complex. Trudy
Gidrav. lab. VODGEO no.10:237-246 '63. (MIRA 17:8)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962210014-5"

YAROTSKIY, V.A., inshener.

Flow of floodwater through the bays of an overflow weir of a
hydroelectric plant during construction. Trudy Gidrav. lab.
VODGEO no. 5:39-49 '57. (MIRA 10:8)
(Hydraulic engineering)

SAMSONOV, G.V., otv. red.; GRIGOR'YEVA, V.V., kand. tekhn. nauk, red.; YEREMENKO, V.N., red.; NAZARCHUK, T.N., kand. khim. nauk, red.; FEDORCHENKO, I.M., akademik, red.; FRANTSEVICH, I.N., akademik, red.; YAROTSKIY, V.D., red.; GILELAKH, V.I., red.

[High-temperature inorganic compounds] Vysokotemperaturnye neorganicheskie soedineniya. Kiev, Naukova dumka, 1965.
471 p. (MIRA 18:12)

1. Akademia nauk URSR, Kiev. Instytut problem materialoznavstva.
2. Chlen-korrespondent AN Ukr.SSR (for Yeremenko, Samsonov).
3. Akademiya nauk Ukr.SSR (for Fedorchenco, Frantsevich).

LITVAK, V.I.; YAROTSKIY, V.D.

Conductometers for the verification recording and automatic regulation of the supersaturation coefficients (from "Zucker," No.1 and 4, 1958). Sakh. prem. 32 no.11:69-71 N '58.

(MIRA 11:12)

(Sugar manufacture) (Conductometric analysis)

YAROTSKIY, V.D.

Principles of automatic operation of evaporator stations (from
"Zucker," No.19, 1958). Sakh. prom. 33 no.5:68-71 My '59.
(MIRA 12:7)
(Sugar manufacture) (Automatic control)

YAROTSKIY, V.D.

Sugar industry of the Rumanian People's Republic (from "Die Zuckererzeugung," no.5, 1958 and no.1, 1959). Sakh.prom. 3⁴
no.1:70-72 Ja '60. (MIRA 13:5)
(Rumania--Sugar iniustry)

ZAKHARIKOV, Nikolay Andreyevich. Prinimal uchastiye ROZHANSKIY, A. I.;
YAROTSKIY, V.D., red.; STARODUB, T.A., tekhn. red.

[Heat-exchange processes in glass furnaces] Teploobmennye
protsessy v steklovarennnykh pechakh. Kiev, Gostekhizdat
USSR, 1962. 246 p. (MIRA 16:4)
(Glass furnaces) (Heat--Transmission)

GOGITASHVILI, Georgiy Grigor'yevich; YAROTSKIY, V.D., red.; STARODUB,
T.A., tekhn. red.

[Prevention of poisoning at chemical plants] Profilaktika
otravlenii na khimicheskikh predpriyatiakh. Kiev, Gos-
tekhnizdat USSR, 1961. 75 p. (MIRA 16:5)
(Chemical plants—Hygienic aspects)

POKHODZILO, Petr Vasil'yevich; VELICHKO, Yu.T., doktor tekhn.
nauk, prof., retsenzent; IVANOV, A.A., kand. tekhn.
nauk, dots., ovt. red.; YAROTSKIY, V.D., red.

[Development of basic methods and techniques in radio
measurements; an historical and technical account] Raz-
vitie osnovnykh metodov i tekhniki radioizmerenii; isto-
riko-tehnicheskii ocherk. Kiev, Izd-vo "Naukova dumka,"
1964. 285 p. (MIRA 17:6)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962210014-5

VECHERSKIY, P.A., kand.tekhn.nauk; YAROTSKIY, V.G., inzh.

Granulation of slat dust. Khim.mashinostr. no.1:17-19 Ja-F
'64. (MIRA 17:4)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962210014-5"

YAROTSKIY, V.G.; KRASHENININ, G.S.; SAMEL'ZON, R.M.

Coarsening of salt dust by the granulation method. Stos.nauch.trud.
UkrNIISol' no.6:95-101 '62. (MIRA 17:3)

YAROTSKIY, V.G.; SAMEL'ZON, R.M.; NAUMENKO, A.I.

Possibility of obtaining common salt by drying brine spray.
Sbor. nauch. trud. UkrNIISol' no. 7-94-99 '64 (MIRA 18:1)

YAROV -YAROVY, M.S.

Plenum of the Committee on Theoretical Astronomy. Astron. zhur.
40 no.6:1130-1131 N.D. '63. (MIRA 16:12)

MARIAMPOL'SKIY, N.A.; YAROV, A.N.; GONCHAROV, N.N.

Using oil-base drilling fluid in well drilling. Neftianik 1
(MLRA 9:11)
no. 9:19-21 S '56.

1. Glavnnyy inzhener Stavropol'skoy kontory bureniya (for Ma-
riampol'skiy). 2. Nachal'nik proizvodstvenno-tehnicheskogo
otdela Stavropol'skoy kontory bureniya (for Yarov). 3. Star-
shiy nauchnyy sotrudnik instituta Vsesoyuznogo nauchno-issle-
dovatel'skogo instituta Furneft' (for Goncharov).
(Oil well drilling fluids)

YAROV, A.N.
MARIAMPOL'SKIY, N.A.; YAROV, A.N.

Effective utilization of cementing equipment. Neftianik 2 no.4:10-11
Ap '57. (MIRA 10:5)

1. Glavnnyy inzhener Stavropol'skoy kontory razvedochnogo bureniya
tresta Kavkazneftegazrazvedka (for Mariampol'skiy). 2. Nachal'nik
proizvodstvenno-tehnicheskogo otdela tresta Kavkazneftegazrazvedka
(for Yarov).

(Oil well cementing)

YAROV, A.N.

92-58-3-21/32

AUTHORS: Mariampol'skiy, N.A., Head, PTO Tresta
Kavkazneftegazrazvedka, and Yarov, A.N., Aspirant, MNI

TITLE: Nomogram for Determining the Quantity of Cement Needed
to Fill One Meter of Annular Space Behind the Casing
String (Nomogramma dlya opredeleniya kolichestva
tsementa na zapolneniye pogonnogo metra zatrubnogo
prostranstva)

PERIODICAL: Vol. 3,
Neftyanik, 1958, Nr 3, pp 21-22 (USSR)

ABSTRACT: The quantity of cement powder required in the preparation
of cement slurry for filling the annular space behind the
casing may be determined on the basis of a formula given
by the author. To facilitate the calculation, the author
also recommends use of a nomogram indicating the quantity
of cement powder, water and slurry necessary to fill one

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Nomogram for Determining the Quantity (Cont.)

92-58-3-21/32

meter of the annular space behind the casing in oil wells of a different structure. The nomogram is divided by the author into two sections, one for casing pipes with a diameter not exceeding 12 in., and the other for casing pipes having a diameter over 12 in. The use of the nomogram and its interpretation are explained by the author in detail.

ASSOCIATION: PTO tresta Kavkazneftegazravvedka and MNI

AVAILABLE: Library of Congress

Card 2/2

1. Nachal'nik proizvodstvenno-tehnicheskogo otdela tresta kavkazneftegazravedka (for Mariampol'skiy).
2. Moskovskiy imeni Trudovogo Krasnogo Znameni neftyanoy institut im. akademika Gubkina (for Yarov). (Oil well cementing).

YAROV, A.N.; MUKHIN, L.K.

Using oil-base fluids for drilling gas-bearing layers.

Izv. vys. ucheb. zav.; neft' i gaz 2 no.5:45-48 '59.

(MIRA 12:8)

L.Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akademika I.M. Gubkina.

(Oil well drilling fluids)

ZHIGACH, K.F.; YAROV, A.N.

Determining the swelling of clays. Izv. vys. ucheb. zav.; neft' i
gaz 2 no.10:13-18 '59. (MIRA 13:2)

1.Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akad. I.M. Gubkina.

(Clay)

YAROV, A. N., Cand Tech Sci -- (diss) "Effect of washing liquids on the productivity of gas wells." Moscow, 1960. 14 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Labor Red Banner Inst of Petrochemical and Gas Industry im I. M. Gubkin, Chair of the Development of Gas and Gasocondensed Deposits and Physical Methods of Pre-treatment of Gas); 170 copies; price not given; (KL, 23-60, 126)

YAROV, A.N.

Effect of a change of the parameters of gas during its flow towards the well bottom on the moisture saturation and gas permeability of a porous medium. Izv. vys. ucheb. zav.; neft' i gaz 3 no.1:49-55 '60. (MIRA 14:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I.M. Gubkina.
(Gas wells)

LUTSENKO, N.A.; KOVALEV, V.P.; YAROV, A.N.; YURCHENKO, O.N.

Utilization of black liquor wastes from woodpulp production.
Bum.i der.prom. no.4:24-25 O-D '62. (MIRA 15:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti
i Ukrainskiy nauchno-issledovatel'skiy institut bumazhnay
promyshlennosti.
(Woodpulp industry---By-products)

IUTSENKO, N.A.; YAROV, A.N.; FINOGEMOV, I.S.

Contraction of hardening cement and annular space gas manifestations.
Gas. prom. 9 no.10:7-9 '64. (MIRA 17:12)

YAROV, A.N.

Simple method for determining the gas content in foaming clay mud.
Neft. i gaz. prom. no.2:23-29 Ap-Je '65.

(MIRA 18:6)

YAROV, A.M.

Dry mud from Chernobyl phagocrite, N-W. i gaz. prot. no. 1130-32
(MIRA 1818)
See Mr 165.

S/0000/63/000/000/0208/0212

ACCESSION NR: AT4020709

AUTHOR: Sheynker, A. P.; Yarov, A. S.; Auer, A. L.; Abkin, A. D.

TITLE: Investigation of the radiation-induced polymerization of methylmethacrylate and butadiene at temperatures above and below their melting points

SOURCE: Karbotsepnye vysokomolekulyarnye soyedineniya (Carbon-chain macro-molecular compounds); sbornik statey. Moscow, Izd-vo AN SSSR, 1963, 208-212

TOPIC TAGS: polymerization, radiation polymerization, ethyl chloride, butadiene, methylmethacrylate, isotactic polymer, syndiotactic polymer, cryostat, low temperature polymerization

ABSTRACT: The effect of temperature on the rate of polymerization of methylmethacrylate and butadiene under the influence of x-rays from cobalt-60 was investigated over a wide range (from 20 to -110°C for methylmethacrylate and from 0 to -196°C for butadiene). The rate of polymerization of methylmethacrylate decreased with decreasing temperature. The molecular weight of methylmethacrylate polymers also decreased with decreasing temperature of polymerization from 19 to -50°C. However, during the polymerization of methylmethacrylate in the solid phase close to the melting point of the monomer, the molecular weight increased considerably. Density data on polymethylmethacrylate showed that at -50 and -60°C an isotactic-

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ACCESSION NR: AT4020709

syndiotactic block polymer is formed. The rate of polymerization of butadiene under the same conditions was higher at -78°C than at either 0 or -196°C. The rate of polymerization of butadiene increased considerably in the presence of ethyl chloride. A cryostat of special construction used for the experiments is described and illustrated. "The authors thank S. P. Trembacheva and L. G. Krylova for their participation in the experiments." Orig. art. has: 5 figures.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-Chemical Institute)

SUBMITTED: 28Jun62

DATE ACQ: 20Mar64

ENCL: 00

SUB CODE: OC

NO REF Sov: 004

OTHER: 009

Card 2/2

S/056/62/043/005/014/058
B102/B104

AUTHORS: Korolev, F. A., Kulikov, O. F., Yarov, A. S.

TITLE: Investigation of polarization properties of synchrotron radiation from high-energy electrons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1653-1656

TEXT: The synchrotron radiation emitted by electrons from the 680-Mev electron accelerator of the FIAN was investigated cinematographically (CK-1 (SKS-1) camera, 500 frames per sec). The relative intensities and the angular distributions of the radiation were determined for both polarization components (σ, π) of the radiating electrons. The latter were obtained after microphotometric treatment of the pictures from representations of both components in a direction corresponding to the vertical (the angular distributions in the horizontal plane were very much distorted). The experimental results were compared with theoretical data from Sokolov's formulas (cf. A. A. Sokolov, Vvedeniye v kvantovuyu elektrodinamiku - Introduction to quantum electrodynamics-, Fizmatgiz,

Card 1/3

S/056/62/043/005/014/058
B102/B104

Investigation of polarization ...

1958, (28) and agreed well except for the π -component at small electron energies (cf. Fig. 1): the 90° minimum that should exist according to theory was not observed, and in no case did the minimum reach zero as it should. As could be shown by measurements of the intensity ratios

$I_\pi^{\min}/I_\pi^{\max}$ over the whole cycle, the absence of a zero minimum can be attributed to axial vibrations of the electrons. The angular distributions as well as the polarization characteristics observed agree with those found by A. A. Sokolov and I. M. Ternov (ZhETF, 31, 473, 1956). There are 3 figures and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: June 21, 1962

Fig. 1. Angular distributions of intensities of σ - and π -components of radiation at different instants of acceleration for $\lambda = 4360\text{\AA}$.
Solid lines: calculations according to Sokolov; I given in relative units.

Card 2/3

Investigation of polarization ...

S/056/62/043/005/014/058
B102/B104

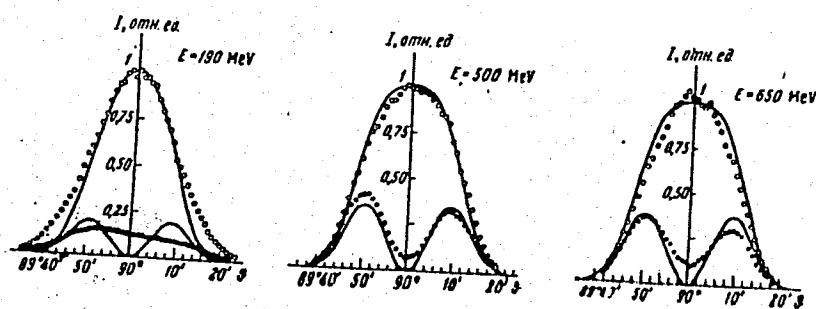


Fig. 1

Card 3/3

L 21210-65 EWG(j)/EWT(m)/EWP(j)/EWA(h)/EWA(l) PC-4/Peb/P1-4 SSD(z)/
AFPC(a)/ESD(gs)/ESD(t) WH/RM
ACCESSION NR: AP5001481 S/0190/64/006/012/2168/2173 -1
3

AUTHOR: Rode, V. V.; Yarov, A. S.; Rafikov, S. R.

TITLE: Chemical transformations of polymers 20. The photochemical decomposition
of selected polyarylates

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 6, no. 12, 1964, 2168-2173

TOPIC TAGS: polyester stability, polyarylate stability, polymer film, thermal
stability, ultraviolet irradiation, photochemical decomposition, phenolphthalein
polycondensation, terephthalic acid, isophthalic acid, infrared spectrum, polymer
crosslinking, chain transfer

ABSTRACT: Polyesters of high thermal stability, prepared by polycondensation of
phenolphthalein with terephthalic or isophthalic acid by the method of V. V.
Korshak et al., were studied for their stability in a vacuum under ultraviolet
light. Thin films were deposited from chloroform solution, dried, exposed for up
to 120 hrs. to the light of a mercury vapor lamp (6.3 quanta/sec·cm²), and analy-
zed by infrared spectroscopy. The gaseous products were identified as carbon mono-
xide and dioxide by gas chromatographic analysis. The coloration of the films
increased and both tensile strength and relative elongation decreased with increas-
ing irradiation time, but decomposition as indicated by the studied parameters was
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ACCESSION NR: AP5001481

5

shown to take place primarily during the first 50-60 hrs. of irradiation. A mechanism for crosslinking, chain transfer, and chain termination by photochemical reactions is proposed, and crosslinking was shown to be favored by the cleavage of lactone rings in the studied polymers. The decrease in decomposition rates with irradiation time was related to the formation of quinoid compounds and their stabilizing activity." The authors thank V. V. Korshak, S. V. Vinogradova and S. N. Salazkin for supplying the specimens." Orig. art. has: 3 tables, 5 figures and 1 formula.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute for Heteroorganic Compounds, AN SSSR)

SUBMITTED: 19Feb64

ENCL: 00

SUB CODE: MT

NO REF SOV: 006

OTHER: 005

Card 2/2

KOROLEV, F.A.; KULIKOV, O.F.; YAROV, A.S.

Studying the emission and acceleration of electrons in a
synchrotron by means of high-speed motion-picture photography.
Usp.nauch.fot. 9:192-197 '64.

(MIRA 18:11)

7.2.11, I. A.

2396 Mashina dlya ispytaniya materialov pri slo zhone-napryazhenii sostoyanii.
Zaved skaya laboratoriya, 1949, no. 9, s. 1150-38

SU: Letopis' Zhurnal'nykh Statey, Vol. 32, Moskva, 1949

POTEMKIN, G. A.; NIKISHOV, A. S. ; RINK, L. P.; YAROV, I. A.; LIVSHITS, D. Kh.
YAROV, I.A.
Engrs.

The testing of samples under variable temperatures & pressures.

Vest Mash p. 28 Sep 51

GINDIN, I.A.; LAZAREVA, M.B.; NIKISHOV, A.S.; RINK, L.P.; STARODUBOV,
Ya.D.; YAROV, I.A.

Mechanical properties of structural steels at low temperature.
Metalloved. i term. obr. met. no.5:44-46 My '64.

(MIRA 17:6)

1. Fiziko-tehnicheskiy institut AN UkrSSR.

YERMOLAYEV, G. L.; YAROV, I. G.

Hydraulic systems of new Russian internal-grinding machines.
Stan. i instr. 33 no.10:20-23 O '62. (MIRA 15:10)

(Grinding machines—Hydraulic drive)

YAROV, I. I.

Yarov, I. I. "The decrease in watering places for karakul sheep in Central Asia",
Karakulevodstvo i zverovodstvo, 1949, No.1, p. 29-33.

SO: U-3042, 11 March 53, (Letopis'nykh Statey, No. 10, 1949).

YAROV, I. I.

Karakul Sheep - Feeding and Feeding Stuffs

Green sand sedge (*Carex physodes*) is a valuable fodder plant. Kar. i zver.
5 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

YAROV, I.I., Cand Agr Sci--(disc) "Certain biological ~~character~~ peculiarities and economically useful qualities of parthenocarpic and ^{hybrid} ~~hybrid~~ and Nog." Iss, 1953. 18 pp (Mem Order of Lenin Agr Acad in L.A.Tsirikovskiy), 110 copies (KL,45-50,150)

-124-

YAROV, I.I., kand. sel'skokhozyaystvennykh nauk

Economically useful qualities of purebred and hybrid swine [with
summary in English]. Izv. TSKhA no.5:222-226 '60. (MIRA 13:11)
(Swine breeds)

YAROV, I. I. and NIKOLAYEVA, A. V. (Candidate of Agricultural Sciences
and Senior Laboratory Technician) (Moscow Technological Institute of
Meat and Dairy Industry)

"The effect of antibiotics on the development of internal organs,
dressing percentage and chemical content of hog meat and lard"

Veterinariya, Vol. 38, no. 10, October 1961, pp. 67

YAROV, I.I., kand.sel'skokhozyaystvennykh nauk; NIKOLAYEVA, A.V.

Effect of antibiotics on the development of the internal organs,
dressing percentage and chemical composition of pork and lard.
Veterinariia 38 no.10:67-70 O '61. (MIRA 16:2)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlennosti. 2. Starshiy laborant Moskovskogo tekhnolog-
cheskogo instituta myasnoy i molochnoy promyshlennosti (for
Nikolayeva).

(Pork) (Lard) (Antibiotics)

YAROV, L. V., Physician

"The Formol Reaction and Its Application in Certain Infectious Diseases."
Sub 25 Jun 51, Second Moscow State Medical Inst imeni I. V. Stalin.

Dissertations presented for science and engineering degrees in Moscow
during 1951.

SO: Sum. No. 480, 9 May 55.

YAROV, R.

"Along the highway" by V.I. Krasil'shchikov. Reviewed by
R. Iarov. Za rul. 17 no.3:29 Mr '59. (MIRA 12:5)
(Automobiles--Touring)

LAKERNIK, R., laureat Stalinskoy premii; YAROV, R., inzh.

Continuous line for manufacturing cables. Izobr. i rats no.9:
6-8, B-S '61. (MIRA 14:8)

tl. Nachal'nik byuro kabeley svyazi zavoda "Moskabel'" (for
Lakernik).

(Cables)

YAROV, R. inzh.

Atom as a measurement unit. Znan.sila 36 no.3:14-16 Mr '61.

(Atoms)

(MIRA 14:3)

YAROV, R.

Organizing the various systems into one system. Znay-sila
37 no.7:52-53 Jl '62. (MIRA 15:9)
(Units)

YAROV, R. (g.Moskva)

All his innovations have been introduced. Izobr.i rats.
no.6:19-20 Je '62. (MIRA 15:6)
(Technological innovations)

YAROV, R.

He made our bread. Izobr.i rats. no.12:24-26 D '62. (MIRA 15:12)
(Baking—Technological innovations)

YAROV, R.

Twenty lost years. Izobr.i rats. no.1:20-21 '63. (MIRA 16:3)
(Vladimir—Technological innovations)

YAROV, R. (Mogilev)

Braked enthusiasm. Za rul. 21 no.5:15 My '63. (MIRA 16:9)

1. Spetsial'nyy korrespondent zhurnala "Za rulem".
(Mogilev--Motor vehicles--Societies, etc.)

YAROV, R. (Minsk)

Voluntary design office."Sport." Za rul. 21 no.6:6 Je '63.
(MIRA 16:11)

1. Spetsial'nyy korrespondent zhurnala "Za rulem".

YAROV, Romen Yeremovich; KRASNOVSKIY, A.A., red.

[Useful vibration] Poleznaia vibratsiya. Moskva,
Znanie, 1966. 45 p. (Novoe v zhizni, nauke, tekhnike.
IV Seriya: Tekhnika, no.3) (MIRA 19:1)

YAROV-YAROVY, M.

Interpolation anomalies for the first ten minor planets. Trudy
GAISH 24:17-39 '54. (MLRA 9:5)
(Planets, Minor) (Problem of three bodies)

YAROV-YAROVOY, M.

Constants of interpolation linear integrals for the first ten
minor planets as a time function . Trudy GAISH 24:41-57 '54.

(MIRA 9:5)

(Planets, Minor) (Problem of three bodies)

YAROV-YAROVOY, M. S.

YAROV-YAROVOY, M. S. --"Interpolation-Analytic Theory of Motion of Ceres."
*(Dissertations for Degrees in Science and Engineering Defended at USSR Higher
Educational Institutions) Moscow order of Lenin and Order of Labor of Red
Banner State U imeni M. V. Lomonosov, State Astronomy Inst imeni P. K. Shternberg,
Moscow, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

* For the Degree of Doctor of Physicomathematical Sciences

AUTHOR:

Yarov-Yarovoy, M.S.

SOV/55-58-1-11/33

TITLE:

On the Calculation of the Higher Partial Derivatives of a Compound Function (O vychislenii vysshikh chastnykh proizvodnykh slozhnoy funktsii)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya fiziko-matematicheskikh i yestestvennykh nauk, 1958, Nr 1, pp 87-95 (USSR)

ABSTRACT: Given $z = z(y_1, y_2, \dots, y_m)$, where the y_k are functions of the x_1, x_2, \dots, x_n . Sought:

$$\frac{\partial^q z}{\partial x_1^{q_1} \partial x_2^{q_2} \dots \partial x_n^{q_n}}, \quad q = q_1 + \dots + q_n.$$

Two auxiliary operators are introduced:

$$\left(\begin{smallmatrix} p_1 & p_2 & \dots & p_n \\ 1 & 2 & \dots & n \end{smallmatrix} \right) = \left(\frac{\partial^p y_1}{\partial x_1^{p_1} \partial x_2^{p_2} \dots \partial x_n^{p_n}} \cdot \frac{\partial}{\partial y_1} + \dots + \frac{\partial^p y_m}{\partial x_1^{p_1} \partial x_2^{p_2} \dots \partial x_n^{p_n}} \cdot \frac{\partial}{\partial y_m} \right)$$

Card 1/2

$$P = p_1 + \dots + p_n$$

On the Calculation of the Higher Partial Derivatives of a Sov/55-58-1-11/33
Compound Function

and

$$\begin{bmatrix} q_1 & q_2 & \dots & q_n \\ 1 & 2 & \dots & n \end{bmatrix} z = \frac{\partial^{q_z}}{\partial x_1^{q_1} \partial x_2^{q_2} \dots \partial x_n^{q_n}}.$$

The problem consists in the determination of an expression for the second operator by the first one. The problem is solved in stages, where finally a formula is obtained being suitable for the practical application.

There are 2 Soviet references.

ASSOCIATION: Kafedra nebesnoy mekhaniki i gravimetrii (Chair of Celestial Mechanics and Gravimetry)

SUBMITTED: September 23, 1957

Card 2/2

16(1)

AUTHOR:

Yarov - Yarovoy, M.S.

SOV/55-58-2-9/35

TITLE:

On the Calculation of Higher Particular Derivatives of a Composed Function (Second Note) (O vychislenii vysshikh chastnykh proizvodnykh slozhnoy funktsii (soobshcheniye vtoroye))

PERIODICAL: Vestnik Moskovskogo Universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, V.13 1953, Nr 2, pp 67-76 (USSR)

ABSTRACT: The author gives recurrence relations necessary for the application of the formula derived in the first note of the author [Ref 1]. There are 2 Soviet references.

ASSOCIATION: Kafedra nebesnoy mekhaniki i gravimetrii (Chair of Celestial Mechanics and Gravimetry) [Moscow Univ.]

SUBMITTED: September 23, 1957

Card 1/1

3(1)

AUTHOR:

Yarov-Yarcvoy, M.S.

SOV '55-58-4-7/31

TITLE:

Comparison of the Preliminary Elements of Ceres With the
Observations of the 20th Century (Sravneniye predvaritel'nykh
elementov Tserery s nablyudeniyami dlya epokh XX veka)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya

V. 13, 1958, Nr 4, pp 65-70 (USSR)

ABSTRACT: The present paper completes the motion theory of the Ceres (compare author [Ref 1]) erected by interpolation and averaging on the base of the three-body problem. The author investigates the exactness of the method of interpolation by a comparison of preliminary and the osculatory elements. It is stated that these elements are only little different from each other, and the less the greater the difference of the heliocentric longitudes of Jupiter and Ceres.

There are 5 tables, and 5 references, 4 of which are Soviet, and 1 German.

ASSOCIATION: Kafedra nebesnoy mehaniki i gravimetrii (Chair of Celestial Mechanics and Gravimetry)

SUBMITTED: April 11, 1958

Card 1/1

16(1)

AUTHOR: Yarov-Yarovoy, M.S. SOV/55-58-5-9/34

TITLE: On the Expansion of the Force Function of Newton's Gravitation
of two Bodies (O razlozenii silovoy funktsii n'yutonianskogo
prityazheniya dvukh tel)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya matematiki, mehaniki, astro-
nomii, fiziki, khimii, 1958, Nr 5, pp 55 - 62 (USSR)

ABSTRACT: For two bodies sufficiently far away from each other Newton's
gravitational function is explicitly expressed by the coordinates
of the centers of inertia and by the Eulerian angles. The
formulas for higher derivatives of complicated composed functions
given by the author in [Ref 3] are essentially used. The author
thanks the Faculty of the Chair of Celestial Mechanics and
Gravimetry Professor G.N. Duboshin for the scientific guidance
of the paper.
There are 1 figure, and 3 Soviet references.

ASSOCIATION: Kafedra nebesnoy mehaniki i gravimetrii (Chair of Celestial Me-
chanics and Gravimetry)

SUBMITTED: May 21, 1958

Card 1/1

9

16(1)

AUTHOR:

Yarov-Yarovoy, M.S.

SOV/55-58-5-10/34

TITLE:

On the Convergence of the Expansion of the Force Function of
Gravitation of two Bodies (O skhodimosti razlozheniya silovoy
funktsii prityazheniya dvukh tel)

PERIODICAL:

Vestnik Moskovskogo universiteta, Seriya matematiki, mekhaniki, astro-
nomii, fiziki, khimi, 1958, Nr 5, pp 63 - 66 (USSR)

ABSTRACT:

The series representation of the gravitational function
obtained in the preceding paper of the author [Ref 1] is in-
vestigated with respect to convergence. Necessary and sufficient
convergence conditions are given.
There are 2 figures and 1 Soviet reference.ASSOCIATION: Kafedra nebesnoy mekhaniki i gravimetrii (Chair of Celestial
Mechanics and Gravimetry)

SUBMITTED: May 21, 1958

Card 1/1

3(1), 16(1)

AUTHOR: Yarov-Yarovoy, M.S.

SOV/55-58-6-5/31

TITLE: On Recurrence Relations for the Calculation of the Derivatives
of Iterated Functions (O rekurrentnykh sootnosheniyakh dlya
vychisleniya proizvodnykh slozhnykh funktsiy)PERIODICAL: Vestnik Moskovskogo universiteta, Seriya matematiki, mekhaniki,
astronomii, fiziki, khimii, 1958, Nr 6, pp 31-38 (USSR)ABSTRACT: The paper contains supplements to the previous publications of
the author [Ref 1, 2]. The author considers partial derivatives
of iterated functions. He determines certain recurrent relations
between the derivatives with respect to the inner argument and
the derivatives with respect to the intermediate argument. The
present paper treats a special case which is necessary for
the calculation of the force of attraction of two bodies and
which was not treated in the investigations of [Ref 1]. The
author mentions G.N.Duboshin.
There are 3 Soviet references.ASSOCIATION: Kafedra nebesnoy mekhaniki i gravimetrii (Chair of Celestial
Mechanics and Gravimetry)

SUBMITTED: May 30, 1958

Card 1/1

3(1), 16(1)

AUTHOR: Yarov-Yarovoy, M.S.

SOV/55-58-6-6/21

TITLE: On the Initial Terms of the Series Development of the Force
of Attraction of Two Bodies (O nachal'nykh chlenakh
razlozheniya silovoy funktsii prityazheniya dvukh tel)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya Astronomii, fiziki, khimii, 1958, № 6, pp 39-44 (USSR)

ABSTRACT: In [Ref 1] for the force of attraction of two bodies the
series development

$$U = f \sum_{q_1=0}^{\infty} \dots \sum_{q_6=0}^{\infty} A^{(q_1, \dots, q_6)} J_1(q_1, q_2, q_3) J_2(q_2, q_5, q_6)$$

was given, where J_1 and J_2 are the moments of inertia of the
bodies with respect to certain planes. In the present paper the
author uses the recurrence relations obtained in [Ref 3] in
order to write explicitly the first terms of the above series.
There are 3 Soviet references.

ASSOCIATION: Kafedra nebesnoy mekhaniki i gravimetrii (Chair of Celestial
Mechanics and Gravimetry)SUBMITTED: May 30, 1958
Card 1/1

7

3(1)

AUTHOR:

Yarov-Yarovoy, M.S.

sov/33-35-5-11/20

TITLE:

The Determination of the Secular Motions of the Perihelion and Node From Observations (Ob opredelenii iz nablyudeniy vekovykh dvizheniy perigeliya i uzla)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 5, pp 772-781 (USSR)

ABSTRACT: The author gives formulas of the differential method of the correction of orbits which allow to determine from observations the parameters of an ellipse which describes the secular motion of the perihelion and node. This method is applied in the case of the minor planet I Ceres. The author compares his results with those of Merfield [Ref 9] and Proskurin [Ref 10]. He thanks Professor B.M.Shchigolev and Professor N.S.Samoylova-Yakhontova for advices.

There are 3 tables and 12 references, 5 of which are Soviet, 6 American, and 1 German.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga
(State Astronomical Institute imeni P.K.Shternberg)

SUBMITTED: August 28, 1957

Card 1/1

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3(+) 16(+)

Yarov-Yarovcy, M.S.

68040
SOV/55-59-3-8/32

AUTHOR:
TITLE:

On the Development of the Power Function of the Attraction of
Two Bodies With Respect to the Moments of Inertia for Axes
Being no Principal- and no Central Axes

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki,
astronomii, fiziki, khimii, 1959, Nr 3, pp 55-62 (USSR)

ABSTRACT: The development of the power function with respect to the moments
of inertia of two bodies was already carried out by the author
[Ref 1], where the formulation of the final formulas was some-
what difficult (either generalized diophantic equations had to
be solved or complicated recurrence formulas had to be used).
In the present paper the development is given not with respect to
the moments of inertia themselves but with respect to certain
combinations of them, where for this aim at first the power
function is developed with respect to negative powers of the
distance between two points of the bodies. The coefficients of the
obtained development are finite sums; summands are products
of 1) sin or cos of a linear combination of the Eulerian angles
of both bodies, 2) powers of the ratio of the coordinate

Card 1/2

On the Development of the Power Function of the Attraction of Two Bodies With Respect to the Moments of Inertia for Axes Being no Principal-
and no Central Axes

68040
SOV/55-59-3-8/32

differences of fixed points to their distance, 3) moments of inertia of both bodies.
There is 1 table, and 4 Soviet references.

ASSOCIATION: Kafedra nebesnoy mekhaniki i gravimetrii
(Chair of Celestial Mechanics and Gravimetry)

SUBMITTED: March 17, 1959

Card 2/2

S/055/59/000/06/06/027

AUTHOR: Yarov-Yarovoy, M.S.

TITLE: On the Development of the Power Function for the Attraction of Two
Bodies Under Certain Assumptions on the Distribution of the Densities.

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki,
astronomii, fiziki, khimii, 1959, No.6, pp. 58-63.

TEXT: The development of the power function for the attraction of two bodies was given by the author in (Ref.1). In the present paper the author considers special cases, e.g. 1) body P_1 arbitrary, P_2 one point; 2) the density in P_1 is symmetric with respect to the center of inertia, P_2 is arbitrary; 3) the density of P_1 is symmetric with respect to the $x_1^{(1)}$ -axis, etc. The corresponding developments of P are given. There are 2 Soviet references.

ASSOCIATION: Kafedra nebesnoy mekhaniki i gravimetrii (Department of Celestial Mechanics and Gravimetry)

SUBMITTED: March 17, 1959

Card 1/1



YAROV-YAROVY, M.S.

Analysis of the force function of the gravitation of two bodies
on the basis of moments of inertia for main and noncentral
axes of inertia. Vest.Mosk.un.Ser.mat., mekh., astron., fiz.,
khim. 14 no.3:55-62 '59. (MIRA 13:5)

1. Kafedra nebesnoy mekhaniki i gravimetrii Moskovskogo
gosudarstvennogo universiteta.
(Gravitation)

3(1),29(2)

AUTHORS: Yarov-Yarovoy, M.S., and Grebenikov, Ye.A. SOV/33-36-3-19/29

TITLE: On the Computation of Precise and Approximate Ephemerides of Artificial Earth Satellites

PERIODICAL: Astronomicheskiy zhurnal, 1959, Vol 36, Nr 3, pp 524-534 (USSR)

ABSTRACT: The paper contains the analytic solution of the following problems: 1. the determination of the interval of latitude in which optical observations of an artificial earth satellite are possible; 2. the calculation of the rigorous ephemerides; 3. an approximate solution which is especially recommended since the calculation can be carried out 4-5 times quicker and the sufficient exactness of 1° is obtained; 4. the answer of the question whether in the given moment the earth satellite can be observed (consideration of the disturbing action of the brightness of the sky and possible vanishing in the earth's shadow). All derived formulas are due to Yarov-Yarovoy. Grebenikov examined their applicability and constructed a practical example. There are 7 figures, and 2 Soviet references.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga
(State Astronomical Institute imeni P.K.Shternberg)

SUBMITTED: July 18, 1958

Card 1/1

PAGE I BOOK EXPLOITATION
Sov/1422
Sov/603-7190)

Academicheskii SSSR. Institut teoreticheskoy astronomii.
Bullietin', tom 7, no. 7(90) (Bullietin' of the Institute of Theoretical Astronomy,
Academy of Sciences USSR, Vol. 7, No. 7(90)). Moscow, 1960. 501-579 p.
Kreisclip inserted. 1,000 copies printed.
Basp. Ed.: G.A. Chabotarev, Professor; Tech. Ed.: V.P. Bochvar.

Purpose: This publication is intended for astronomers and those interested in
astronomy.

CONTENTS: The publication contains 8 articles dealing with artificial celestial
bodies and related theoretical problems. Observations of earth satellites and
their orbits, motion, and perturbations are discussed, and calculations relating
to the earth's oblateness are given. The articles are accompanied by summaries
in English, French, or German. References follow most of the articles.

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Batrakov, Yu.V. Some Results of Evaluation of Optical Observations of An- tificial Earth Satellites at the Institute of Theoretical Astronomy of the Academy of Sciences of the USSR [Summary in English]	503
Dobrokhin, G.M. On Rotation of Artificial Celestial Bodies [Summary in German]	511
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Proshutin, V.P., and Yu.Z. Shturcov. Perturbations in the Motion of Artifi- cial Satellites Due to the Earth's Plateness [Summary in English]	537
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Card 2/3

Bulletin of the Institute of Theoretical Astronomy (Cont.)	Sov/1422
Lagor-Teplova, M.S. On Convergence of Series Representing the Motion of An- tificial Earth-Satellite-Satellites [Summary in German]	552
Mil'kov, D.M., and Yu.V. Shturcov. Method for Improving Orbits of Artificial Earth Satellites Using Approximately Known Observation Times [Summary in English]	556
Shturcov, Yu.V. Determination of Initial Orbits of Artificial Satellites From Approximately Known Observation Times [Summary in English]	570

AVAILABLE: Library of Congress

42-10000-454
10/24/60

Card 2/3

S/188/60/000/02/06/006
B020/B054

AUTHOR: Yarov-Yarovoy, M. S.

TITLE: Conference on the Mathematical Theory of the Motion of
Artificial Celestial Bodies (Brief Reproduction of the
Reports Delivered)

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 3, fizika,
astronomiya, 1960, No. 2, pp. 76 - 80

TEXT: The Conference mentioned was held at the Gosudarstvennyy
astronomicheskiy institut imeni P. K. Shternberga (GAISh) (State Astro-
nomical Institute imeni P. K. Shternberg) from December 22 to 25, 1959;
it had been convened by the kafedra nebesnoy mehaniki i gravimetrii
GAISha (Chair of Celestial Mechanics and Gravimetry of the State Astro-
nomical Institute imeni P. K. Shternberg), the otdel teoreticheskoy
astronomii GAISha (Department of Theoretical Astronomy of the State
Astronomical Institute imeni P. K. Shternberg), and the fizicheskiy
fakul'tet MGU (Department of Physics of Moscow State University). Mem-
bers of the Organizing Committee were the professors and co-workers of ✓

Card 1/7

Conference on the Mathematical Theory of the Motion of Artificial Celestial Bodies (Brief Reproduction of the Reports Delivered) S/188/60/000/02/06/006
B020/B054

the Department of Physics, the mekhaniko-matematicheskiy fakul'tet (Department of Mechanics and Mathematics), the GAISh MGU, the Institute of Theoretical Astronomy, the Astronomicheskiy sovet (Council of Astronomy), and other institutions of the Akademiya nauk SSSR (Academy of Sciences of the USSR). Chairman of the Organizing Committee was Professor G. N. Duboshin, Head of the kafedra nebesnoy mekhaniki i gravimetrii MGU (Chair of Celestial Mechanics and Gravimetry of Moscow State University), and Secretary was Ye. A. Grebenikov, Scientific Collaborator of the GAISh. The following persons took part in the work of the Organizing Committee: Professor L. N. Sretenskiy, Corresponding Member of the AS USSR, A. G. Masevich, Doctor of Physical and Mathematical Sciences, Deputy Chairman of the Council of Astronomy of the AS USSR, Professor G. A. Chebotarev, Doctor of Physical and Mathematical Sciences, Head of the otdel ITA AN SSSR (Department of the Institute of Theoretical Astronomy of the AS USSR) et al., altogether representatives of about 30 institutions and organizations of Moskovskiy universitet (Moscow University), Leningradskiy universitet (Leningrad University), Kazanskiy universitet (Kazan' University), Tbilisskiy ✓

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universitet (Tbilisi University), the Latviyskiy universitet (Latvian University), and other institutes of higher learning of the USSR, the Institute of Theoretical Astronomy and other institutes of the AS USSR. 28 reports were delivered at the Conference, including 17 reports by professors, co-workers, and post-graduate students of Moscow State University. First Morning Session, December 22, chairman: Professor G. N. Duboshin, Head of the Chair of Celestial Mechanics and Gravimetry of Moscow State University. A short address of welcome was held by Professor D. Ya. Martynov, Director of the GAISH, and the preliminary speech was delivered by Professor G. N. Duboshin; the latter mentioned that the suggestion made by S. V. Rumyantsev, Deputy Minister of Higher and Medium Special Education, concerning the organization of a Vsesoyuznaya konferentsiya po iskusstvennym nebesnym telam (All-Union Conference on Artificial Celestial Bodies) would be discussed. Professor I. D. Zhongolovich, Director of the Institute of Theoretical Astronomy, spoke about "Some New Formulas Referring to the Motion of Artificial Earth Satellites" and "Attempts of Deriving Numerical Values for Some Parameters of the Gravitational Field of the Earth". The principal ✓

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constants c_2 , c_3 , c_4 in the expansion of the earth potential in a series by means of the Legendre polynomials are tabulated. Ye. A. Grebenikov spoke about "Secular and Periodic Perturbations of the Motion of Artificial Earth Satellites Caused by Atmospheric Drag". The model of the atmosphere described in the paper by D. Ye. Okhotaymskiy, T. M. Eneyev, and G. P. Taratynova is applied in this report. A. A. Orlov gave a "Survey of Papers by Foreign Scientists on the Theory of Motion of Artificial Celestial Bodies". At the Evening Session under the chairmanship of G. A. Chebotarev, G. M. Bazhenov spoke about the "Problem of Determining the Orbits of Artificial Celestial Bodies on the Basis of Three Observations", Yu. V. Batrakov on the "Evaluation of Observations of the Third Soviet Artificial Celestial Body at the Institute of Theoretical Astronomy of the AS USSR", G. P. Taratynova on the methods of numerical integration of differential equations for the motion of artificial celestial bodies over long time intervals, and D.K. Kulikov's report dealt with the same subject. Second Morning Session, December 23, chairman: Professor L. N. Sretenskiy, Corresponding Member of the AS USSR.

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Professor G. N. Duboshin spoke about the integration of differential equations for the rotary motion of artificial celestial bodies, V. T. Kondurar "On the Rotational and Translational Motion of a Spherical Satellite", and V. V. Beletskiy on the "Motion of Artificial Earth Satellites Around the Mass Center". At the Evening Session (under the chairmanship of Professor I. D. Zhongolovich), L. N. Sretenskiy spoke about the motion of a point in the field of attraction of a pulsating spheroid with oscillations of a certain frequency, which maintains its volume, A. A. Orlov spoke "On the Problem of the Periodic Motions of a Material Point in the Gravitational Field of a Spheroid in the Critical Case", Ye. P. Aksenov on "Almost Circular Orbits of Particles in the Gravitational Field of a Rotating Body", A. V. Yegorova on "Fluctuations in the Motion of a Satellite Caused by the Ellipticity of the Earth and Influence of the Sun". Morning Session, December 24, chairman: Professor P. M. Gorshkov. M. M. Pospergelis spoke about the "Trajectories of the Flight to the Moon", M. S. Yarov-Yarovov "On the Motion of a Rocket Near the Moon", V. G. Demin "On the Periodic Orbits of an Artificial Moon Satellite", Ye. A. Grebenikov on the "Use of Hill

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Methods in the Theory of Motion of Artificial Earth Satellites". At the Evening Session (under the chairmanship of Professor G. A. Chebotarev), N. G. Magnaradze spoke "On the Motion of an Artificial Satellite With Variable Mass", V. A. Brumberg on "Trajectories of the Fall in the Finite Three-body Problem", V. G. Demin "On Periodic Flights Around the Moon", and Ye. P. Aksenov on the influence of the triaxiality of the earth on the motion of artificial earth satellites. Morning Session, December 25, chairman: A. A. Orlov. Professor B. M. Shchigolev spoke about approximate solutions of some problems of celestial mechanics and the estimation of their accuracy by methods of probability calculus, R. A. Lyakh about "A Modification of the Method of Expanding the Perturbation Function in a Series", N. B. Yelenevskaya on the expansion of the perturbation function in a series at an eccentricity of nearly 1, and finally M. S. Yarov-Yarovoy "On the Improved Convergence of Series Describing the Motion of Artificial Earth Satellites". At the Evening Session (under the chairmanship of G. N. Duboshin), lecturers dealt with problems connected with the prospects of the solution of theoretical mathematical problems of the motion of artificial celestial bodies.

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Finally, a resolution was passed stating the principal sources of the work of the Conference and giving instructions for further work. It was decided to publish a collection of the reports delivered at the Conference, and the organization of an All-Union Conference on Artificial Celestial Bodies was recommended. Further, it was recommended to convene from time to time more specialized conferences for mutual information and exchange of experience, and to establish a special commission at the Council of Astronomy of the AS USSR to coordinate all work in the field of celestial mechanics. There is 1 table.

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Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 10,
p. 9, # 9813

AUTHOR: Yarov-Yarovoy, M. S.

TITLE: On the Convergence of Series Representing the Motion of Earth
Artificial Satellites

PERIODICAL: Byul. In-ta teor. astron. AN SSSR, 1960, Vol. 7, No. 7, pp. 552-553
(German summary)

TEXT: The problem is considered on constructing the series representing the motion of Earth artificial satellites, provided that only terms depending on the Earth moments of inertia of no higher than second order are taken into account. The convergence of the series obtained in this manner is proved by two methods: by using the known A. M. Lyapunov theorem on the development of solutions of differential equations by powers of initial data, and by means of constructing more rigorous majorant series. The convergence of series has also

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On the Convergence of Series Representing the Motion of Earth's Artificial Satellites

been proved, if any (finite) number of terms independent of the Earth rotation are taken into account in expanding the Earth's potential.

From author's summary.

Translator's note: This is the full translation of the original Russian abstract. ✓B

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YAROV-YAROVOY, M.S.

Motion of a rocket in the vicinity of the moon. Biul. Inst. teor.
astron. 7 no.10:822-827 '60. (MIRA 14:3)
(Artificial satellites—Moon)